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Cryptography and relational database management systems
J He, M Wang - IDEAS, 2001 - doi.ieeecomputersociety.org
... One example is an **encryption** PL/**SQL** package that encrypts a table **column** with a user supplied
encryption key 19]. The second approach is tight coupling. A com- plete set of basic crypto
primitives are built into the database server as a set of new **SQL statements**, to- gether ...
Cited by 52 - Related articles - All 9 versions

Computer system for generating **SQL statements** from COBOL code
D Coker - US Patent 5,640,550, 1997 - Google Patents
... Vision supports variable-length records, data compression, and data **encryption**. ... is associated
with the **SQL** database concept listed beside it: 25 30 COBOL Concept Database Concept
Directory File Database Table Record Row Field **Column** For example ... 03 AR-CODES-**KEY**. ...
Cited by 16 - Related articles - All 4 versions

Privacy preserving data mining of sequential patterns for network traffic data
SW Kim, S Park, JI Won, SW Kim - Information Sciences, 2008 - Elsevier
... The procedure for finding frequent items with the N-repository server model is as follows: first,
every site partitions its own network traffic data into N groups by using a hash function and
encrypts each group by a unique **encryption key** assigned to the group. ...
Cited by 12 - Related articles - BL Direct - All 4 versions

[PDF] DB2 Everyplace Database Release 8.1: Architecture and **Key** Features
T Fanghänel, JS Karlsson, TYC Leung - Datenbank-Spektrum, 2003 - Citeseer
... Updates on a table contai- ning at least one variable-length **column** might cause existing
records to be moved to the end of the file if the updated record is larger. ... The **encryption**
component imple- ments a global-**key** based **key**-handling scheme. ...
Cited by 6 - Related articles - View as HTML - All 4 versions

[PDF] Database **Encryption**-How to Balance Security with Performance
U Mattsson - ... /peer publishing/database-**encryption**-how-to-balance- ..., 2005 - Citeseer
... In the case where multiple columns are encrypted, but the table has space limitations, the same
IV can be reused for each encrypted value in the row, even if the **encryption keys** for each **column**
are different, provided the **encryption** algorithm and **key** size are ...
Cited by 4 - Related articles - View as HTML - All 3 versions

[PDF] Manipulating microsoft **sql** server using **sql** injection
C Cerrudo - Application Security Inc, URL http://www. ..., 2007 - 81.cgisecurity.com
... An attacker would start by creating a table with similar **column** names and data ... If you are
particularly paranoid, you can also set the registry **keys** to read ... penetration testing/vulnerability
assessment), actively defend/monitor (intrusion detection), and protect (**encryption**) your most ...
Cited by 16 - Related articles - View as HTML - All 81 versions

Providing database as a service
H Hacigumus, B Iyer, S Mehrotra - Proc. of ICDE, 2002 - doi.ieeecomputersociety.org
... For example, if we were to **encrypt** the **column** discount of a table called lineitem using the user
de- fined function called "**encrypt**", and decrypt it by the user defined function "decrypt" one would
use the following **SQL** ... insert into lineitem (discount) values (**encrypt**(10,**key**)) ...

[PDF] … monitoring is a viable stop gap to database **encryption** for the payment card …

R Mogull - Gartner Research, 2006 - villanova.edu

… Database activity monitoring and media **encryption** can be combined for effective data security, buying enterprise managers the needed time to implement good **column**-level **encryption**. … "When and How to Use Database **Encryption**" … Acronym **Key** and Glossary Terms …

Metadata management in outsourced encrypted databases

E Damiani, S De Capitani di Vimercati, S Foresti … - Lecture notes in …, 2005 - Springer

… data, users have to decrypt them, which could only be done by knowing the **encryption** algorithm and … If the access to the decryption **keys** is limited to certain users of the system, different users … an access matrix A, ACL i denotes the vector corresponding to the i-th **column** (ie, the …

[PDF] Informix and indexing support for data warehouses

PO'Neil - Database Programming and Design, 1997 - Citeseer

… Set Query benchmark. 3 Other products use special **encryption** of bitmap patterns designed to save space on disk. … Page 12. - 1 2 - An MTJ Index that concatenates **column** values from several dimension … on SALES (select as **key** t.month, p.package_type, c.gender …

[PDF] Multi-Tenant Data Architecture

F Chong, G Carraro, R Wolter - MSDN Library, Microsoft …, 2006 - wrappedapps.com

… include records from multiple tenants stored in any order; a Tenant ID **column** associates every … encrypted contents of the row would be useless without access to the tenant's private **key**. The importance of **encryption** increases the closer a SaaS application is to the "shared" end …

[PDF] Database Auditing

J Woo, S Lee, C Zoltowski - Citeseer

… 2003, p698]. Sybase **Encryption** supports **column**-based **encryption** and role-based **encryption**, saving the decryption **key** in internal tables. One concern arises under this architecture. If the DBA Page 8. 8 is not …

[BOOK] Pro T-SQL 2005 programmer's guide

M Coles - 2007 - books.google.com

… 191 Hashing and **Encryption** Without **Keys** 200 Summary 201 CHAPTER 9 Error Handling and Debugging 203 Legacy Error Handling 203 TRY...CATCH 205 RAISERROR 208 Debugging Tools 209 Summary 213 CHAPTER 10 Dynamic **SQL** 215 The EXECUTE **Statement** 215 …

Chip-secured data access: Confidential data on untrusted servers

L Bouganim, P Pucheral - … of the 28th international conference on …, 2002 - portal.acm.org

… Secured communications Encrypted Data Database Server **Encryption** Decryption Access rights DBMS **Keys** usurpation Insider Administrator (DBA/SA) … Query capacity: any data, whatever its granularity, may be queried through a predicate-based language (typically **SQL**). …

… with methods for executing system-created internal **SQL** command **statements**

EP Wildermuth - US Patent 5,950,188, 1999 - Google Patents

… Specifically, the **SQL statements** are passed to the Parser 261 which converts the **statements** into … Normalizer performs error checking, such as confirming that table names and **column** names

which ... index may be constructed as a single disk file storing index **key** values together ...

Cited by 12 - Related articles - All 2 versions

SQL Server Encryption
N SQL - Springer

... plain text to **encrypt** in the form of a char, nchar, varchar, nvarchar, binary, or varbinary constant, expression, variable, or **column** name (in ... The KEY_SOURCE is a value **SQL** Server hashes and performs bitwise manipulations on to generate a symmetric **encryption key**. ...

Relational database management encryption system
J He, S Padmanabhan, M Wang - US Patent App. 10/036,196, 2001 - Google Patents

... The other alternative is to decrypt all the old values, which would require Alice to provide correct decryp- tion **key**(s). Similarly, when Alice changes a **column** by enabling the **encryption** option, she could either leave the old **column** values alone, or provide a ...

All 4 versions

Key rotation
B Metzger, S Mauldin, B Sandell, J ... - US Patent App. 12/ ..., 2009 - Google Patents

... encrypted **column** of a table for **key** rotation; instantiating a view for accessing sensitive data in the previously encrypted **column**; redirecting **SQL statements** directed to the table to the view; performing re-**encryption** of the sensitive data in the pre- viously encrypted **column**. ...

All 4 versions

... Providing SQL Extensions for Automated Encryption and Decryption of Column ...
RK Chitkara, BJ Banks, AR Patel - US Patent App. 10/711,929, 2004 - Google Patents

... Structured Query Language (**SQL**) extensions for creating and managing **column encryption keys**, and for creating and managing database tables with encrypted col- umn data; receiving an **SQL statement** specifying creation of a particular **column encryption key**; receiving an ...

All 2 versions

[PDF] ... MASTER KEY statement, 573 backups BACKUP DATABASE statement, 190 ...
SQL Server, ADRQ Length, ADWQ Length - auditing - media.wiley.com

... DOS) attacks, 529–530 DENY **statement**, 579 dependency diagrams, 320–321 deploying updates, 566 Derived **Column** transforms, 376 ... User **Key** option, 379 **Encrypt** Sensitive with Password option, 379 **Encrypt** Sensitive with User **Key** option, 379 **encryption**, 570–574 ...

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